

1 **Claim 1. (original)** A chemical dispensing apparatus for use with an air
2 conditioning or heating system to reduce airborne contaminants from the air
3 stream of a conditioned space comprising a chemical supply section including
4 a chemical reservoir and a chemical delivery device to store and supply
5 chemical to the contaminated air stream and a dispensing control section
6 including a microprocessor control to selectively control the dispensing of
7 chemical to the contaminated air stream.

1 **Claim 2. (original)** The chemical dispensing apparatus of Claim 1 wherein
2 said chemical reservoir comprises a chemical storage container and a
3 chemical feed control.

1 **Claim 3. (original)** The chemical dispensing apparatus of Claim 2 wherein
2 the chemical delivery section comprises a chemical dispensing device coupled
3 to said chemical storage container by a chemical supply conduit through a
4 chemical flow control.

1 **Claim 4. (original)** The chemical dispensing apparatus of Claim 3 wherein
2 said chemical flow control comprises a normally closed flow control valve
3 selectively movable between an open position and a closed position coupled
4 to said dispensing control section by a conductor to receive actuating signals
5 therefrom to selectively move from said normally closed position to said open

6 position to allow the chemical to flow from said chemical storage container to
7 the air handler.

1 **Claim 5. (currently amended)** The chemical dispensing apparatus of
2 Claim 4 ~~wherein said chemical feed control~~ wherein said chemical dispensing
3 device comprises an atomizing nozzle coupled to the chemical storage
4 container.

1 **Claim 6. (original)** The chemical dispensing apparatus of Claim 4
2 wherein said chemical feed control is a check valve.

1 **Claim 7. (original)** The chemical dispensing apparatus of Claim 6 further
2 including a blower control to receive control or actuating signals to selectively
3 actuate or energize a blower when chemical is dispensed from said chemical
4 storage container.

1 **Claim 8. (original)** The chemical dispensing apparatus of Claim 7 wherein
2 said blower control includes a transformer and blower control relay box.

1 **Claim 9. (original)** The chemical dispensing apparatus of Claim 1 wherein
2 said dispensing control section comprises a microprocessor control device
3 including a display to provide a visual display of the system status.

1 **Claim 10. (original)** The chemical dispensing apparatus of Claim 9
2 wherein said microprocessor control device controls the operating cycle by the
3 frequency of application and duration of dispensing of the chemical.

1 **Claim 11. (original)** The chemical dispensing apparatus of Claim 10
2 wherein said microprocessor control device includes an up control key and a
3 down control key to selectively control said operating cycle.

1 **Claim 12. (original)** The chemical dispensing apparatus of Claim 9
2 wherein said microprocessor control device monitors and records the
3 operation of said chemical dispensing apparatus.

1 **Claim 13. (original)** The chemical dispensing apparatus of Claim 9
2 wherein said microprocessor control device monitors consumption of
3 chemical.

1 **Claim 14. (original)** The chemical dispensing apparatus of Claim 13
2 wherein said microprocessor control devices monitors consumption of
3 chemical through dispensing rate calculations.

1 **Claim 15. (original)** The chemical dispensing apparatus of Claim 14
2 wherein said display includes a display of chemical in said reservoir.

1 **Claim 16. (original)** The chemical dispensing apparatus of Claim 13
2 wherein said microprocessor control devices monitors consumption of
3 chemical through a sensor.

1 **Claim 17. (original)** The chemical dispensing apparatus of Claim 16
2 wherein said display includes a display of chemical in said reservoir.

1 **Claim 18. (original)** The chemical dispensing apparatus of Claim 15
2 wherein the chemical may be manually dispensed by pressing a program
3 mode key and then pressing a manual injection key.